

AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** An electrolyte for the galvanic deposition of aluminum-magnesium alloys, containing at least one organoaluminum complex compound of formula $MAIR_4$ or mixtures thereof and an alkylmagnesium compound, wherein M represents Na, K, Rb or Cs, and R represents a C_1-C_{10} alkyl group wherein the electrolyte comprises:

trialkylaluminum (AlR_3), wherein R represents a C_1-C_{10} alkyl group.

organoaluminum complex compounds of formulas M^1AlR_4 and M^2AlR_4 , wherein M^1 and M^2 are different from each other, representing Na, K, Rb or Cs, and R represents a C_1-C_{10} alkyl group, and

an alkylmagnesium compound, wherein the alkylmagnesium compound is included in an amount of from 0.01 to 10 mole-%, relative to the aluminum complex, and wherein the alkylmagnesium compound is selected from the group of $Mgbutyl_{1.5}octyl_{0.5}$, $Mgbutyl_{1.0}ethyl_{1.0}$, $Mgsec-butyl_{1.0}n-butyl_{1.0}$ or mixtures thereof.

2.-5. **(Canceled)**

6. **(Previously presented)** The electrolyte according to Claim 1, wherein the electrolyte includes an organic solvent.

7. **(Previously presented)** The electrolyte according to claim 6, wherein the organic solvent is an aromatic solvent.

8. **(Previously presented)** The electrolyte according to claim 7, wherein the aromatic solvent is benzene, toluene or xylene or a mixture thereof.

9. **(Withdrawn- Currently amended)** A method for the production of the electrolyte according to Claim 1, comprising:

-supplying trialkylaluminum (AlR_3), wherein R represents a C_1-C_{10} alkyl group;

-adding supplying an organoaluminum complex compounds of formulas M^1AlR_4 and M^2AlR_4 , wherein M^1 and M^2 are different from each other, representing Na, K, Rb or Cs, and R represents a C_1-C_{10} alkyl group; $MAIR_4$ or a mixture thereof, and

-adding an alkylmagnesium compound; selected from the group consisting of $Mgbutyl_{1.5}octyl_{0.5}$, $Mgbutyl_{1.0}ethyl_{1.0}$, $Mgsec-butyl_{1.0}n-butyl_{1.0}$ and mixtures thereof, wherein the alkylmagnesium compound is included in an amount of from 0.01 to 10

mole-%, relative to the organoaluminum complex wherein M represents Na, K, Rb or Cs, and R represents a C₁-C₁₀ alkyl group.

10. (Cancelled)

11. (Cancelled)

12. (Withdrawn- Currently amended) The method according to Claim 911, wherein the alkylmagnesium compound is added dissolved in a hydrocarbon.

13. (Withdrawn- Currently amended) The method according to Claim 911, wherein the alkylaluminum complex is supplied dissolved in an aromatic hydrocarbon.

14. (Withdrawn) The method according to claim 12, wherein the hydrocarbon is a saturated or unsaturated hydrocarbon.

15. (Withdrawn) The method according to claim 14, wherein the hydrocarbon is selected from the group of i-pentane, n-pentane, hexane, n-hexane, heptane, n-heptane, toluene, xylene.

16. (Previously presented) An electrolyte for the production of aluminum-magnesium alloys on electrically conducting materials or electrically conducting layers, which can be produced according to the method of Claim 9.

17. (Withdrawn) A method of coating electrically conducting materials or layers with aluminum-magnesium alloys comprising coating said electrically conducting materials or layers with the electrolyte in accordance with Claim 1, in which method the alkylmagnesium compound is metered during coating.

18. (Cancelled)

19. (Currently amended) An electrolysis kit for the galvanic deposition of aluminum-magnesium alloys on electrically conducting materials or layers, including:

(a) the organoaluminum complex compounds and the trialkylaluminum compound or alkylaluminum compounds of Claim 1; and

(b) an alkylmagnesium compound in accordance with Claim 1.

20. (Previously presented) The electrolysis kit according to claim 19, wherein the compounds (a) and (b) are present in an organic solvent.

21. (Currently amended) The electrolyte of Claim 13, wherein R represents C₁-C₄ alkyl group.

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22. **(Currently amended)** The electrolyte of Claim 13, wherein R¹ and R² independently represent a C₂-C₁₀ alkyl group.

23. **(Currently amended)** The electrolyte of Claim 14, wherein the alkylmagnesium compound is included in an amount of from 0.1 to 1 mole% relative to the aluminum complex.

24. **(Cancelled)**

25. **(Withdrawn)** The method of Claim 9, wherein R represents a C₁-C₄ alkyl group.

26. **(Withdrawn- Currently amended)** The method of Claim 911, wherein R¹ and R² independently represent a C₂-C₁₀ alkyl group.